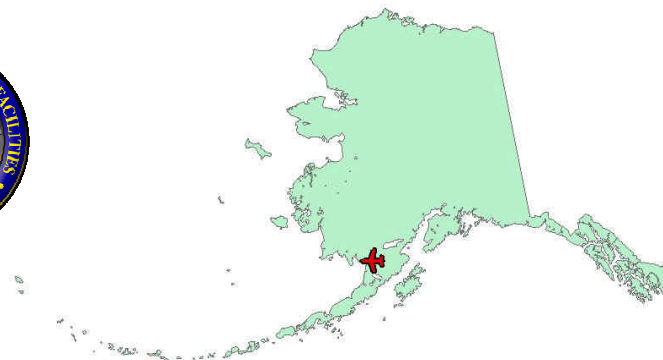




KING SALMON AIRPORT



2004 Alaska Airport Pavement Condition Report

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Maps and report compiled by
 H. June Finkbinder
 Central Region Materials, Alaska DOT&PF

KING SALMON AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of January 2004
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

- Location:

The King Salmon Airport is located approximately on the northwest part of the Alaska Peninsula, approximately 15 miles inland from the village of Naknek, that is on Kvichak Bay. The town of King Salmon is just south of the airport. This airport serves both civilian passenger and cargo aircraft as well as military aircraft. The taxiways and aprons in the northwest portion of the airport are for military use only, and therefore are not considered herein. King Salmon is accessible from outside that area only by air and water. The airport has fences and controlled access.
- District: Southwestern District of the Central Region
- Airport Manager: Zane Walker
- District Maintenance Manager: Troy Larue
- Pavement Surface: Asphalt Concrete, Portland Cement Concrete
- Last Pavement Construction: 1989
- Pavement layout:

The main Runway 11-29 that is approximately 8,500' long and is 150' wide with paved shoulders. Runway 11-29 is surfaced with jointed slabs of Portland Cement Concrete (PCC) at each end and has Asphalt Concrete (AC) surfacing in the center portion. Runway 18-36 is all AC surfaced and measures approximately 4,000' long by 100' wide with paved shoulders. There are multiple taxiways and aprons to support each runway.
- Design Aircraft: B-727 and USAF Military
- 2002 Enplanements: 37,102 – up 3% from 2002
- Airport Class: Primary
- Last pavement condition survey: 2004
conducted by John Rajek and Roy Stover of Central Region Materials
- Next planned pavement condition survey: 2007
- 2004 reported pavement maintenance and/or changed conditions: Crack sealing done on the West Ramp, Taxiway A, Taxiway B and started on the Southeast Ramp. All ramps are in generally poor condition and of questionable strength. The over run for R/W 11 is also in poor condition. The Air Force has a project mostly designed for reconstruction and widening of T/W N.
- **Recommendations:** See PCI maps

Date: 12 /15/2004

Branch Condition Report

1 of 2

Pavement Database: NetworkID: KingSalmon

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
100 (Taxiway A)	1	340.00	82.50	28050.00	TAXIWAY	48.00	0.00	48.00
1400 (Taxiway N)	2	458.00	100.00	45800.00	TAXIWAY	20.50	20.50	8.06
1600 (Taxiway P)	1	500.00	120.00	60000.00	TAXIWAY	18.00	0.00	18.00
200 (Taxiway B)	1	270.00	90.00	27450.00	TAXIWAY	38.00	0.00	38.00
300 (Taxiway C)	2	2075.00	107.50	224025.01	TAXIWAY	24.00	4.00	23.25
400 (Taxiway D)	1	362.40	85.00	31985.00	TAXIWAY	38.00	0.00	38.00
4100 (East Apron)	1	1000.00	175.00	175000.00	APRON	20.00	0.00	20.00
4200 (West Apron)	1	285.00	975.00	270677.01	APRON	35.00	0.00	35.00
4300 (Southeast Ramp)	1	775.00	390.00	303431.01	APRON	48.00	0.00	48.00
500 (Taxiway E)	1	600.00	100.00	60000.00	TAXIWAY	22.00	0.00	22.00
6100 (Runway 11 - 29)	9	25398.00	50.00	1269900.03	RUNWAY	60.11	25.32	82.96
6200 (Runway 18 - 36)	2	3795.00	100.00	379500.01	RUNWAY	44.50	1.50	44.50
900 (West Apron Taxilane)	1	550.00	110.00	60500.00	TAXIWAY	43.00	0.00	43.00

Date: 12 /15/2004

Branch Condition Report

2 of 2

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	3	749108.02	34.33	11.44	36.76
RUNWAY	11	1649400.04	57.27	23.69	74.11
TAXIWAY	10	537810.01	29.60	13.97	26.37
All	24	2936318.07	42.88	23.08	55.84

Date: 12 /15/2004

Section Condition Report

1 of 2

Pavement Database: NetworkID: KingSalmon

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway A)	100-01	07/15/1989	AC	TAXIWAY	P	0	28050.00	06/23/2004	15	48.00
1400 (Taxiway N)	1400-01	07/15/1991	AC	TAXIWAY	T	0	9000.00	06/23/2004	13	41.00
1400 (Taxiway N)	1400-02	07/01/1950	AC	TAXIWAY	T	0	36800.00	06/23/2004	54	0.00
1600 (Taxiway P)	1600-01	09/01/1972	AC	TAXIWAY	T	0	60000.00	06/24/2004	32	18.00
200 (Taxiway B)	200-01	07/15/1989	AC	TAXIWAY	P	0	27450.00	06/23/2004	15	38.00
300 (Taxiway C)	300-01	07/15/1985	AC	TAXIWAY	P	0	90900.00	06/24/2004	19	28.00
300 (Taxiway C)	300-02	09/01/1972	AC	TAXIWAY	P	0	133125.00	06/24/2004	32	20.00
400 (Taxiway D)	400-01	07/15/1986	AC	TAXIWAY	S	0	31985.00	06/24/2004	18	38.00
4100 (East Apron)	4100-01	07/15/1972	AC	APRON	P	0	175000.00	06/24/2004	32	20.00
4200 (West Apron)	4200-01	07/15/1991	AC	APRON	P	0	270677.01	06/23/2004	13	35.00
4300 (Southeast Ramp)	4300-01	07/15/1986	AC	APRON	S	0	303431.01	06/24/2004	18	48.00
500 (Taxiway E)	500-01	07/15/1972	AC	TAXIWAY	P	0	60000.00	06/24/2004	32	22.00
6100 (Runway 11 - 29)	6100-01C	08/15/1997	AC	RUNWAY	P	0	343000.01	06/24/2004	7	90.00
6100 (Runway 11 - 29)	6100-01E	07/25/1962	PCC	RUNWAY	P	0	50800.00	06/24/2004	42	52.00
6100 (Runway 11 - 29)	6100-01W	07/15/1958	PCC	RUNWAY	P	0	29500.00	06/24/2004	46	37.00
6100 (Runway 11 - 29)	6100-03C	08/15/1997	AC	RUNWAY	P	0	343000.01	06/24/2004	7	91.00
6100 (Runway 11 - 29)	6100-03E	07/25/1962	PCC	RUNWAY	P	0	50800.00	06/24/2004	42	44.00
6100 (Runway 11 - 29)	6100-03W	07/15/1958	PCC	RUNWAY	P	0	29500.00	06/24/2004	46	18.00
6100 (Runway 11 - 29)	6100-05C	08/15/1997	AC	RUNWAY	P	0	343000.01	06/24/2004	7	93.00
6100 (Runway 11 - 29)	6100-05E	07/25/1962	PCC	RUNWAY	P	0	50800.00	06/24/2004	42	68.00
6100 (Runway 11 - 29)	6100-05W	07/15/1958	PCC	RUNWAY	P	0	29500.00	06/24/2004	46	48.00
6200 (Runway 18 - 36)	6200-01	07/15/1991	AC	RUNWAY	P	0	189500.00	06/23/2004	13	46.00
6200 (Runway 18 - 36)	6200-02	07/15/1991	AC	RUNWAY	P	0	190000.00	06/23/2004	13	43.00
900 (West Apron Taxilane)	900-01	07/15/1991	AC	TAXIWAY	P	0	60500.00	06/23/2004	13	43.00

Date: 12 /15/2004

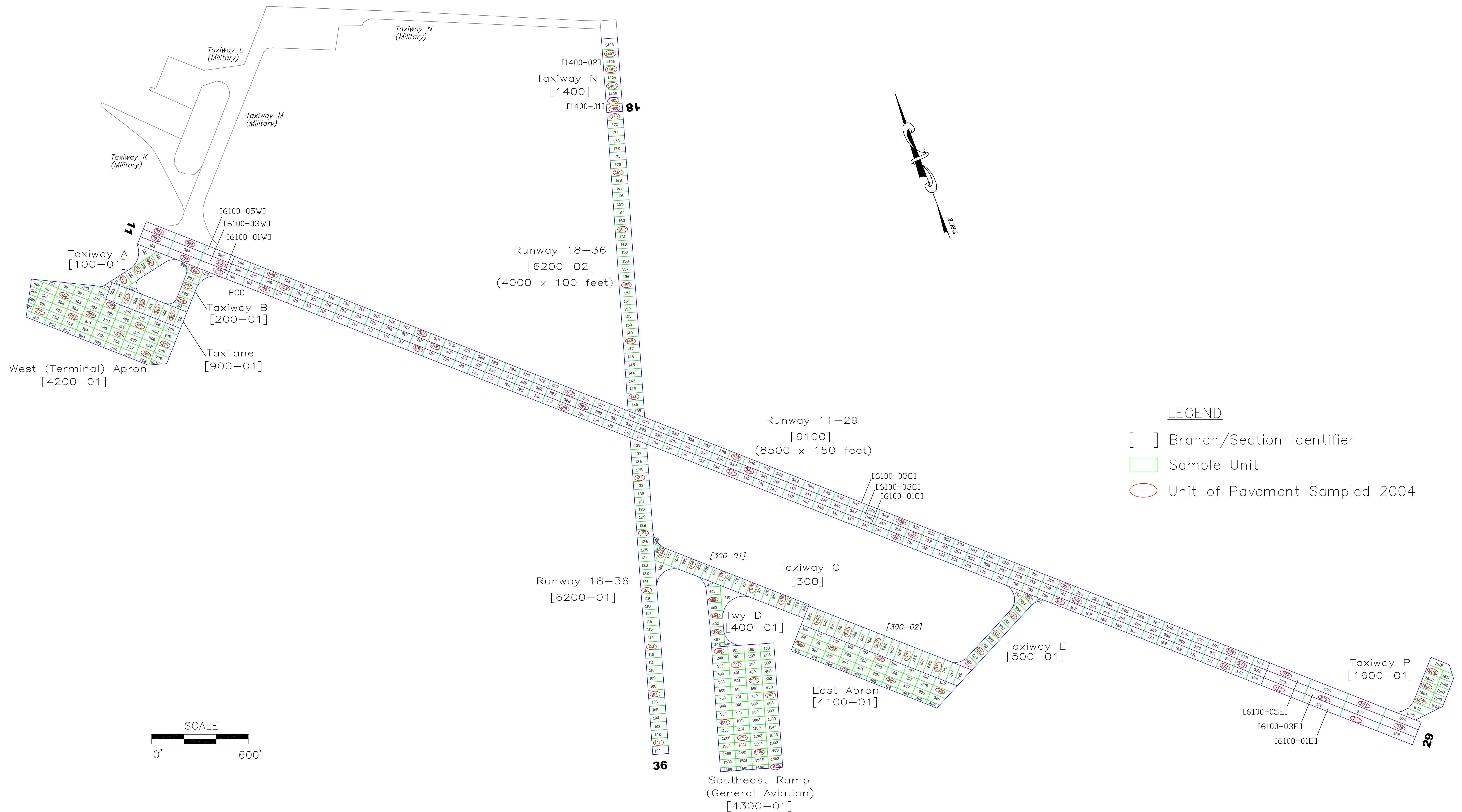
Section Condition Report

2 of 2

Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
06-10	7.00	1029000.03	3	91.33	1.25	91.33
11-15	13.57	775177.02	7	42.00	4.14	40.92
16-20	18.33	426316.01	3	38.00	8.16	42.99
31-35	32.00	428125.01	4	20.00	1.41	20.00
over 40	45.43	277700.01	7	38.14	20.97	40.94
All	25.71	2936318.07	24	42.88	23.08	55.84

		PAVEMENT STRENGTH SURVEY											
STATE Alaska		CITY	King Salmon	AIRPORT	King Salmon	This is a variation of FAA Form 5320-1-1							
		CONSTRUCTION DATES											
IDENT.	NAME	ORIG.	OVERLAY	CONSTRUCTION AGENCY	SOURCE OF INFORMATION	Existing Pavement Conditions (PCI) at last inspection	Soil Class	Subbase Course	Base Course	Surface Course	Overlay	Pavement Strength	
RUNWAYS													
6100-01C	Runway 11-29 AC pavement section 2	1989		U.S.A.F		90						H85*	
6100-01E	Runway 11-29 PCC pavement east section 3	1996		U.S.A.F		52						H85*	
6100-01W	Runway 11-29 PCC pavement west section 1	1996		U.S.A.F		37						H85*	
6100-03C	Runway 11-29 AC pavement section 2	1989		U.S.A.F		91						H85*	
6100-03E	Runway 11-29 PCC pavement east section 3	1996		U.S.A.F		44						H85*	
6100-03W	Runway 11-29 PCC pavement west section 1	1989		U.S.A.F		18						H85*	
6100-05C	Runway 11-29 AC pavement section 2	1989		U.S.A.F		93						H85*	
6100-05E	Runway 11-29 PCC pavement east section 3	1996		U.S.A.F		68						H85*	
6100-05W	Runway 11-29 PCC pavement west section 1	1989		U.S.A.F		48						H85*	
6200-01	Runway 18-36	1991		AK DOT&PF	As-Built 12/91	46			13.5" CABC	3" AC		S75, ST155, T170	
6200-02	Runway 18-36	1991		AK DOT&PF	As-Built 12/92	43			13.5" CABC	3" AC		S75, ST155, T171	
TAXIWAYS													
100-01	Taxiway A	1989		AK DOT&PF	As-Built 12/91	48			12.5" CABC	4" AC			
200-01	Taxiway B	1989		AK DOT&PF	As-Built 12/91	38			12.5" CABC	4" AC			
300-01	Taxiway C Runway 18 to SE ramp Section 1	1985		AK DOT&PF	As-Built 8/86	28		9"	11" CABC	4" AC			
300-02	Taxiway C Sta. 10+66 to t/w E Section 2	1972		AK DOT&PF		20		9"	11" CABC	4" AC			
400-01	Taxiway D	1986		AK DOT&PF	As-Built 8/86	38		9"	11" CABC	4" AC			
500-01	Taxiway E	1972		AK DOT&PF	AS-Built 11/72	22		6"	9" CABC	3" AC			
900-01	West Apron Taxiway			AK DOT&PF		43							
1400-01	Taxiway N, Sec. 1	1991		AK DOT&PF	Estimate	41			13.5" CABC	3" AC			
1400-02	Taxiway N, Sec. 2	1950		U.S.A.F.	Estimate	0							
1600-01	Taxiway P	1972		U.S.A.F.	Date est. by airport manager, 1992 COE Evaluations	18				4" AC			
APRONS													
4100-01	East Apron	1972		AK DOT&PF	As-Built 11/72	20		6"	9" CABC	3" AC			
4200-01	West Apron T/W A to T/W B	1991		AK DOT&PF	As-Built 12/91	35			12.5" CABC	4" AC			
4300-01	Southeast Ramp	1986		AK DOT&PF	As-Built 8/86	48		9"	11" CABC	4" AC			
REMARKS:													
* Runway 11-29 Serves as an emergency landing field for aircraft up to B-747 400 in size.													
Date of Site Inspection:		June of 2004		Evaluated By:	S. Gartin	5/11/2005						PAGE 1 of 1	

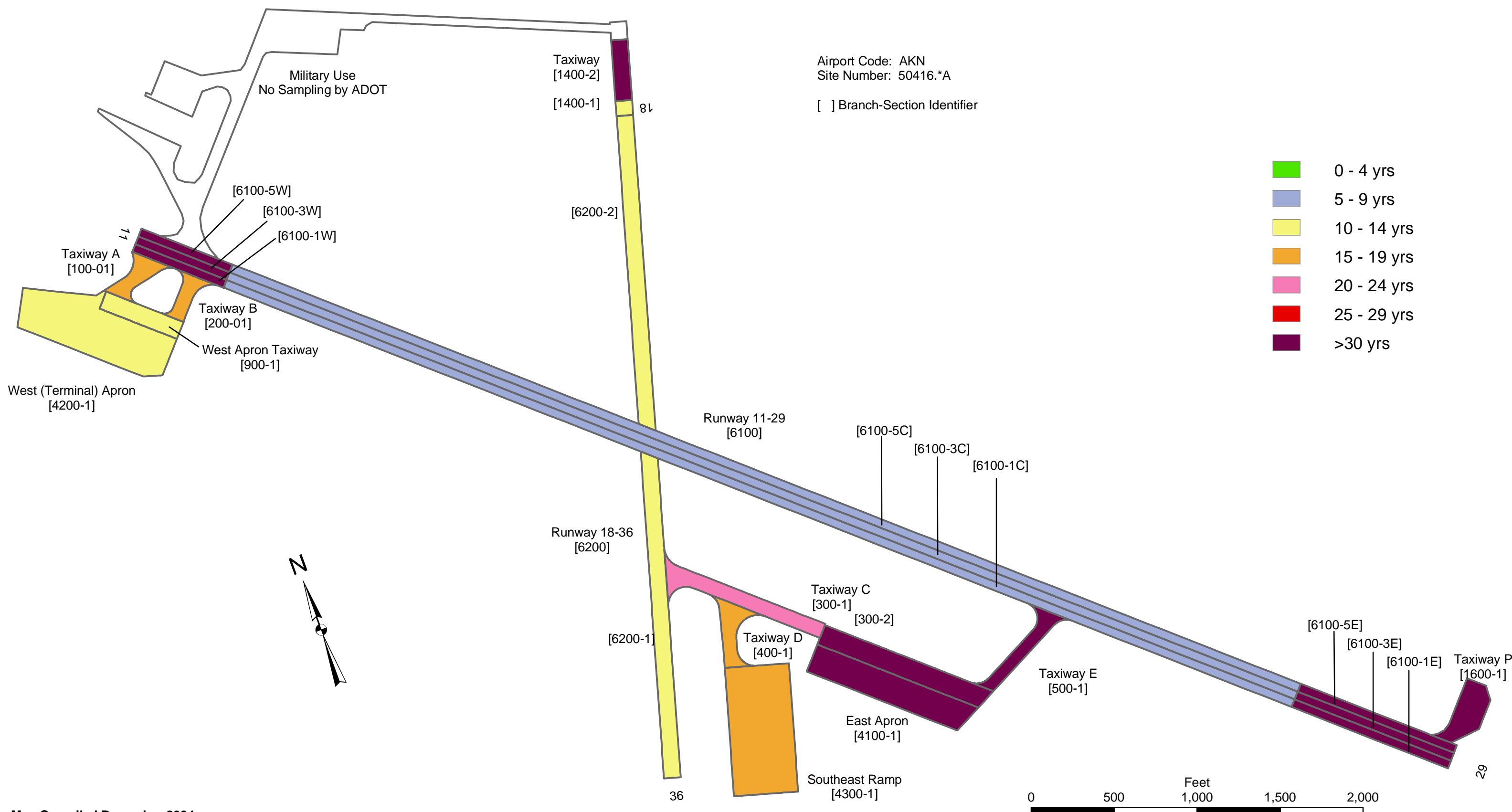


LEGEND

- [] Branch/Section Identifier
- Sample Unit
- Unit of Pavement Sampled 2004

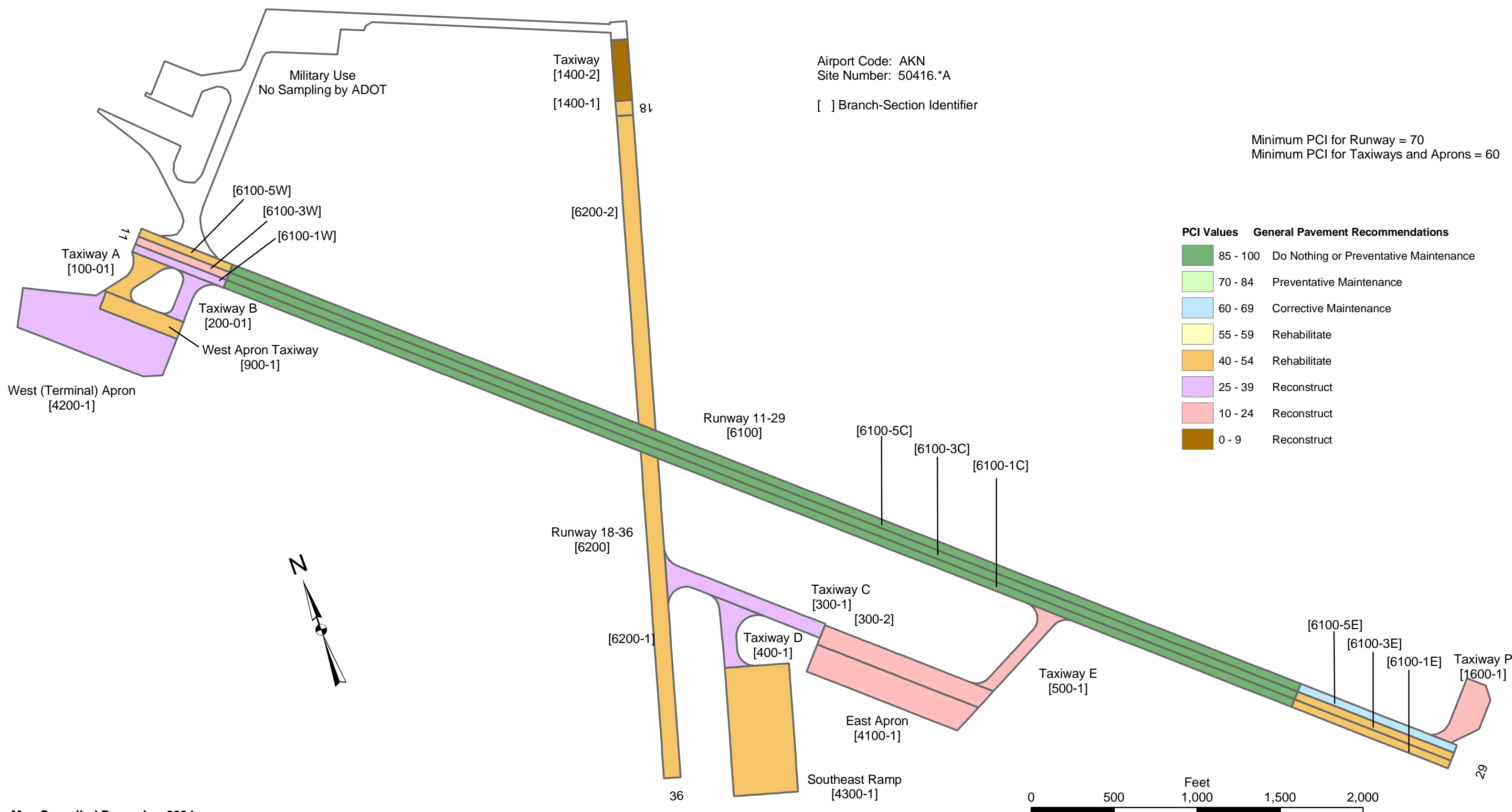
King Salmon Airport

Pavement Surface Age
2004



King Salmon Airport

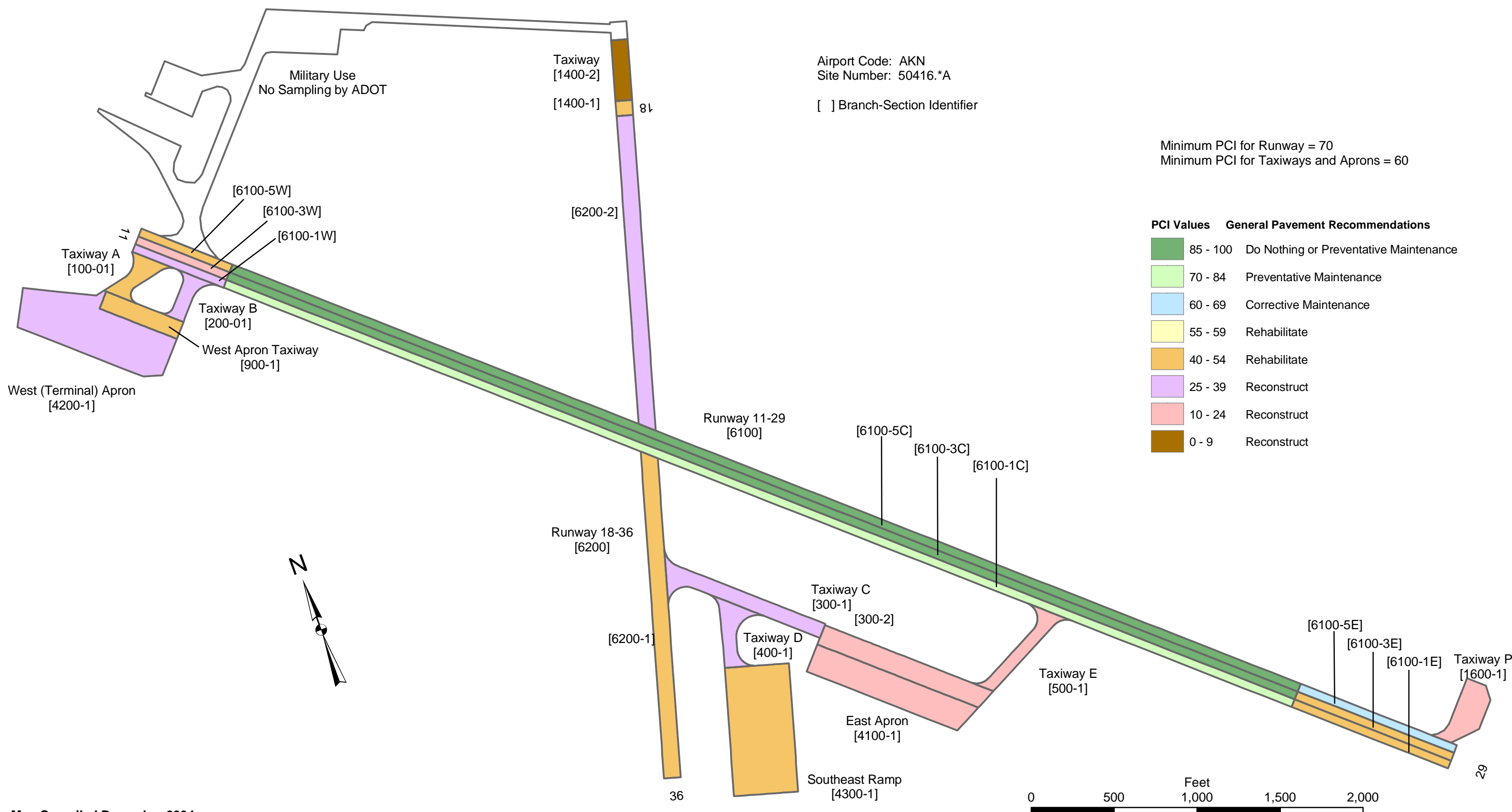
Pavement Condition Index (PCI) Measured Values for the Year 2004



King Salmon Airport

Pavement Condition Index (PCI)

Predicted Values for the Year 2005



Airport Code: AKN
Site Number: 50416.*A
[] Branch-Section Identifier

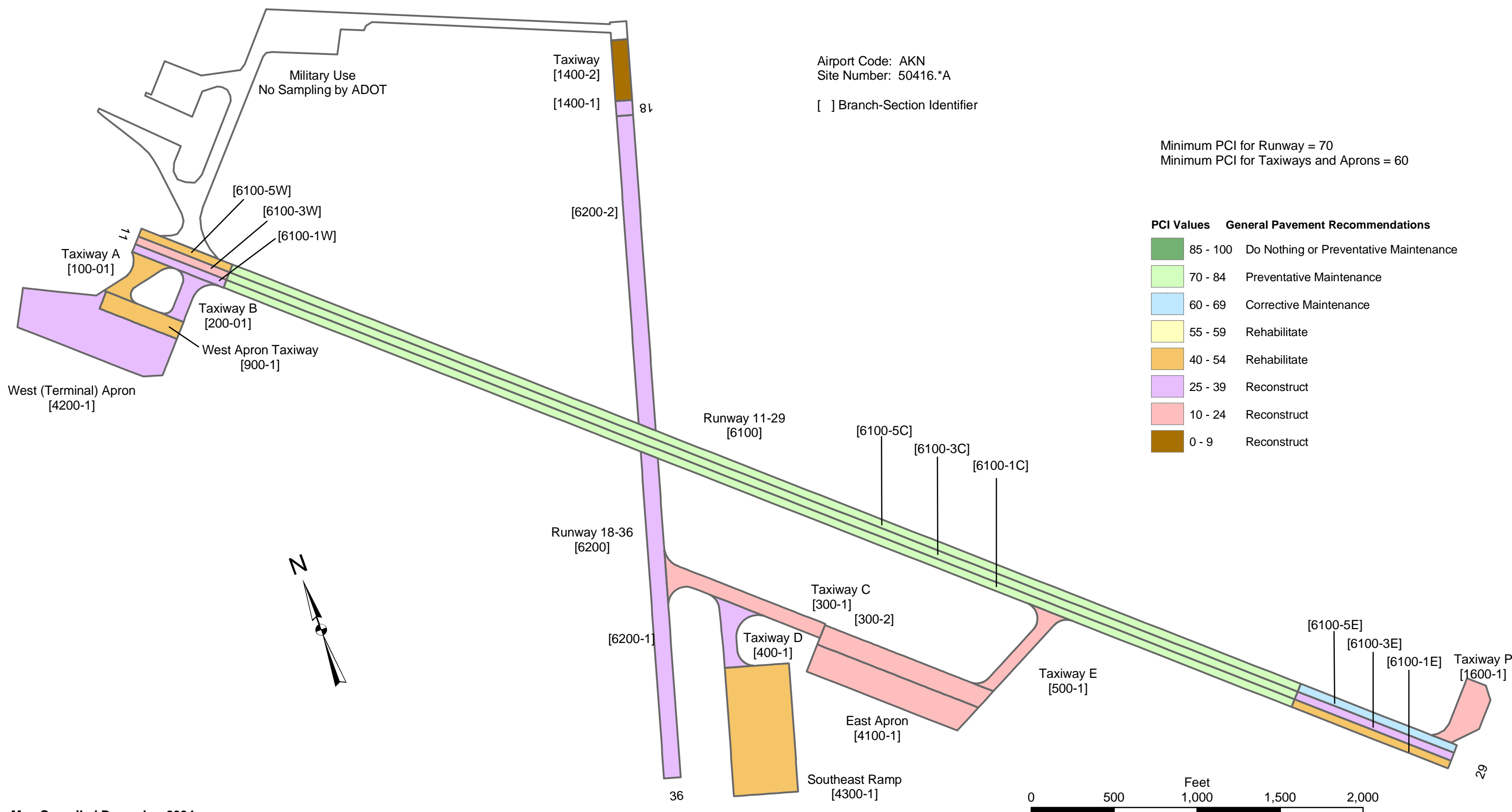
Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

King Salmon Airport

Pavement Condition Index (PCI)

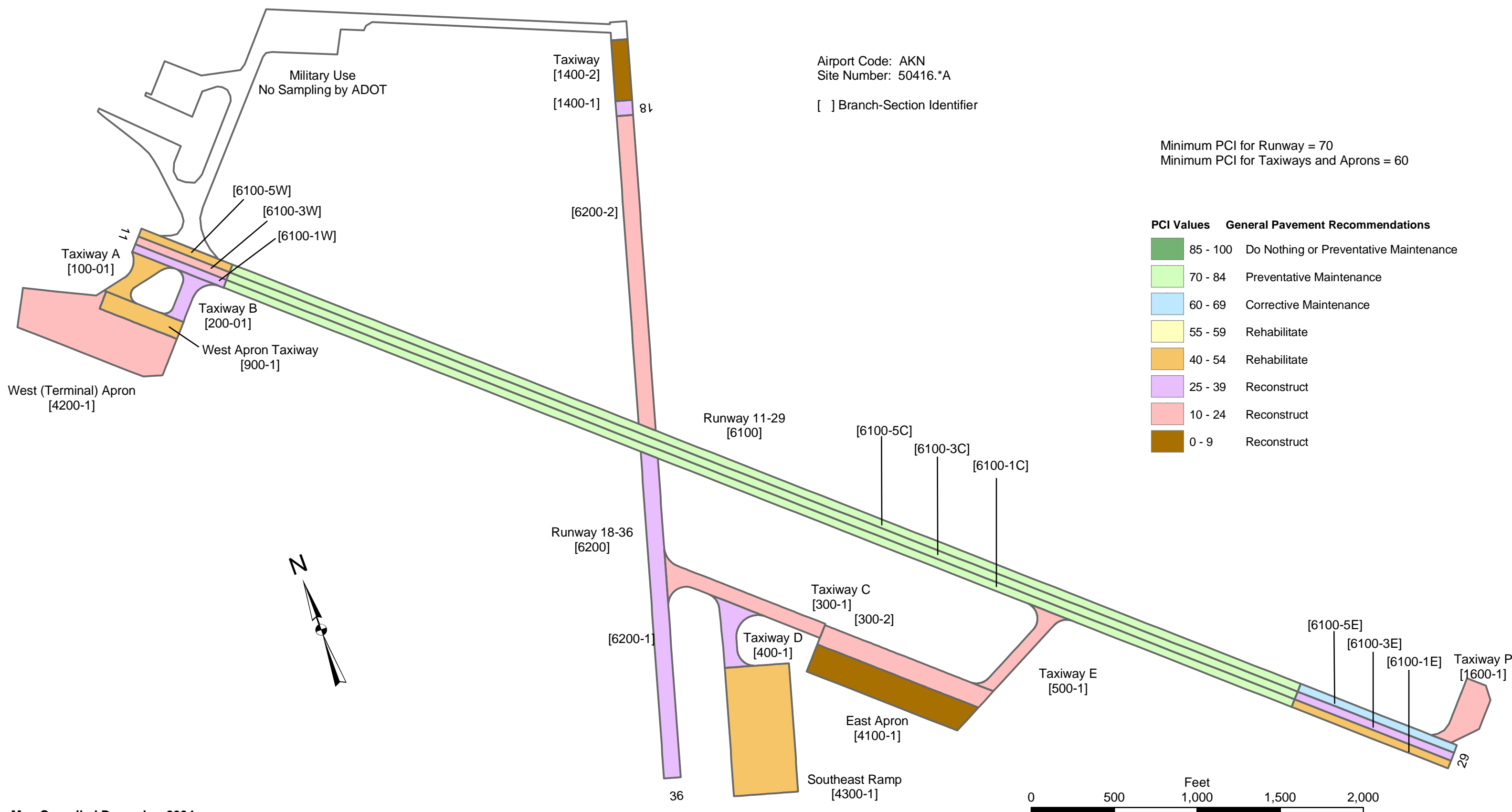
Predicted Values for the Year 2006



King Salmon Airport

Pavement Condition Index (PCI)

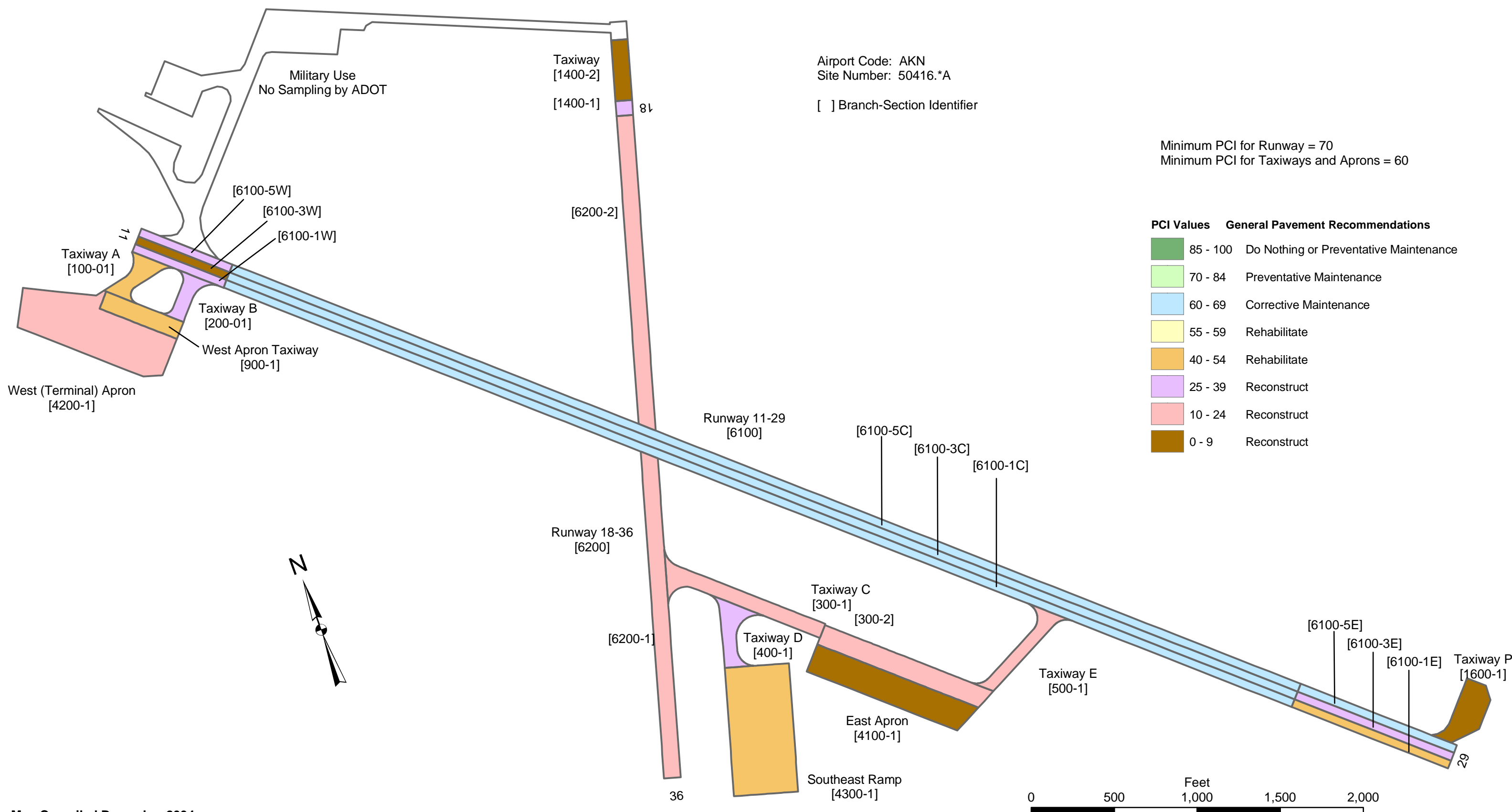
Predicted Values for the Year 2007



King Salmon Airport

Pavement Condition Index (PCI)

Predicted Values for the Year 2008



King Salmon Airport

Pavement Condition Index (PCI)

Predicted Values for the Year 2009

